REMARKS

Substitute pages 105-107 are provided to comply with the Sequence Rules set forth

in 37 CFR § 1.821-1.825. In addition, the paper copy of the Sequence Listing included herein is

identical to the last-filed computer readable form (CRF) filed in the parent application. Accordingly,

no new matter has been added.

Respectfully submitted,
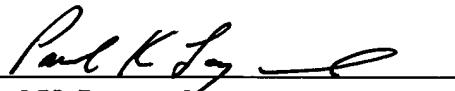
Paul K. Legaard
Registration No. **38,534**

Date: **January 7, 2000**

WOODCOCK WASHBURN KURTZ
  MACKIEWICZ & NORRIS LLP
One Liberty Place - 46th Floor
Philadelphia, PA 19103
(215) 568-3100
(215) 568-3439 facsimile

SEQUENCE LISTING

(1) GENERAL INFORMATION:

   (i) APPLICANT: Stanley T. Crooke

   (ii) TITLE OF INVENTION: Oligonucleotides And Ribonucleases For Cleaving
                 RNA

   (iii) NUMBER OF SEQUENCES: 8

   (iv) CORRESPONDENCE ADDRESS:
     (A) ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & Norris LLP
     (B) STREET: One Liberty Place - 46th Floor
     (C) CITY: Philadelphia
     (D) STATE: PA
     (E) COUNTRY: U.S.A.
     (F) ZIP: 19103

   (v) COMPUTER READABLE FORM:
     (A) MEDIUM TYPE: 3.5 inch disk, 1.44 Mb
     (B) COMPUTER: IBM PC compatible
     (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     (D) SOFTWARE: WordPerfect 8.0

   (vi) CURRENT APPLICATION DATA:
     (A) APPLICATION NUMBER: 08/870,608
     (B) FILING DATE: 06-JUN-1997
     (C) CLASSIFICATION: N/A

   (viii) ATTORNEY/AGENT INFORMATION:
     (A) NAME: Joseph Lucci
     (B) REGISTRATION NUMBER: 33,307
     (C) REFERENCE/DOCKET NUMBER: ISIS-2484

   (ix) TELECOMMUNICATION INFORMATION:
     (A) TELEPHONE: 215-568-3100
     (B) TELEFAX: 215-568-3439

(2) INFORMATION FOR SEQ ID NO:1:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 17 bases
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
GGGCGCCGUC GGUGUCC   17

(2) INFORMATION FOR SEQ ID NO:2:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 17 bases
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
CCACACCGAC GGCGCCC   17

(2) INFORMATION FOR SEQ ID NO:3:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 20 bases
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
CCGAAUGUGA CCGCCUCCCG   20

(2) INFORMATION FOR SEQ ID NO:4:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 20 bases
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
CGGGAGGCGG UCACAUUCGG   20

(2) INFORMATION FOR SEQ ID NO:5:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 20 bases
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
UCAAUGGAGC ACAUACAGGG   20

(2) INFORMATION FOR SEQ ID NO:6:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 20 bases
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
CCCUGUAUGU GCUCCAUUGA   20

(2) INFORMATION FOR SEQ ID NO:7:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 20 bases
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
AAUGCAUGUC ACAGGCGGGA   20

(2) INFORMATION FOR SEQ ID NO:8:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 20 bases
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear

A2
Concld.

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
UCCCGCCUGU GACAUGCAUU   20